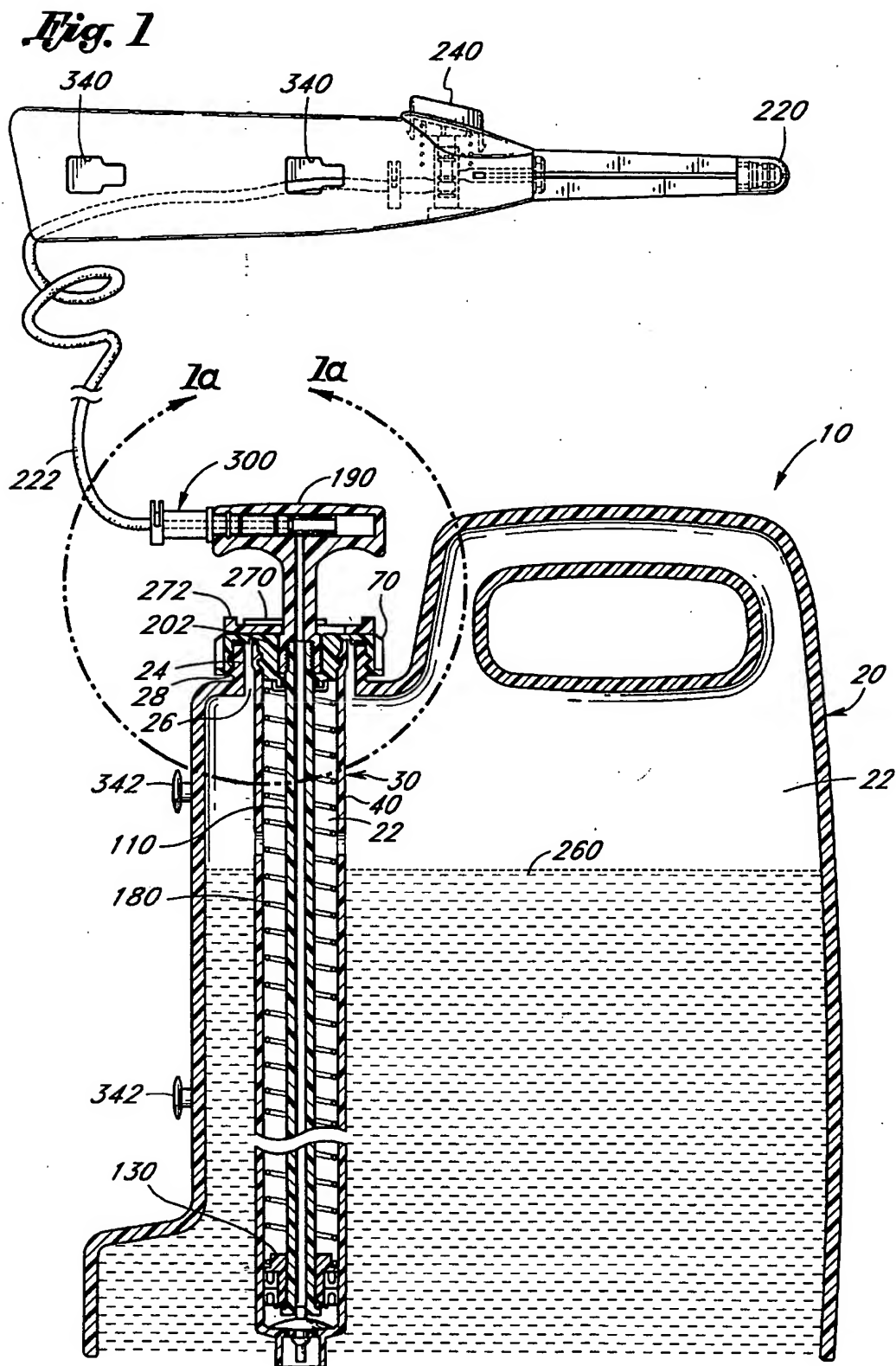
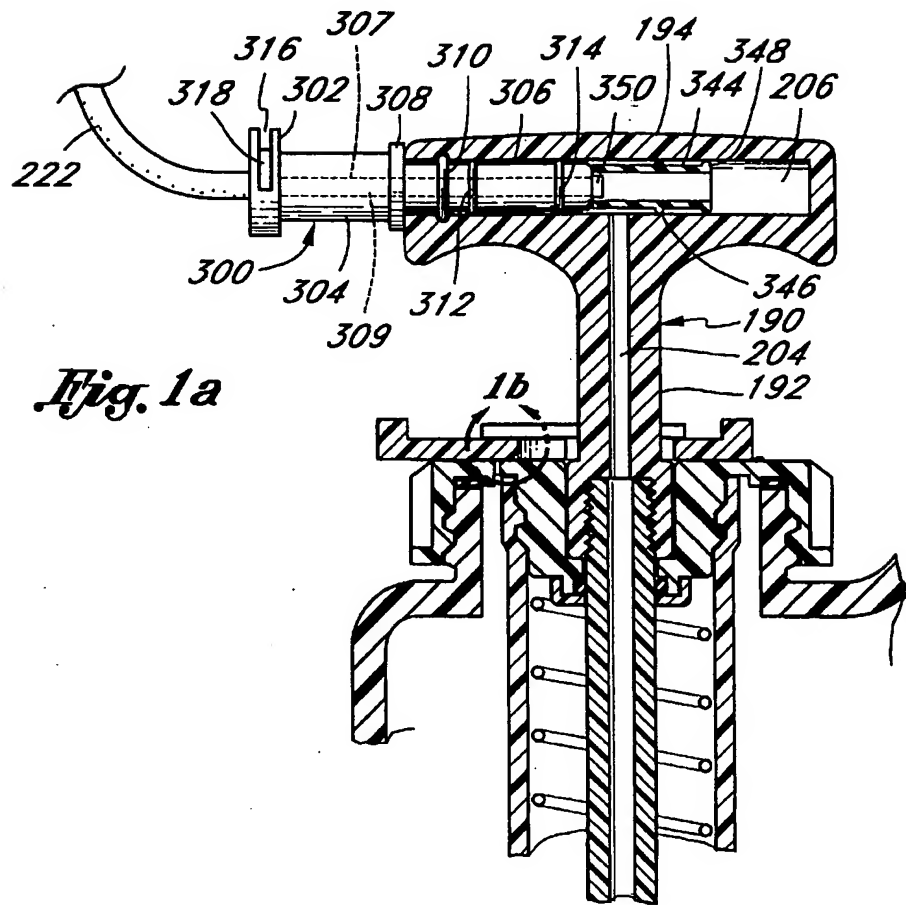




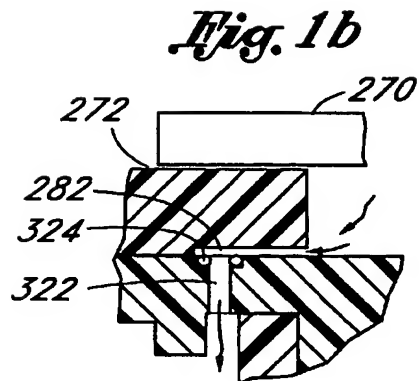
PUMP ASSEMBLY WITH ONE PIECE PISTON  
Donald J. Shanklin et al.  
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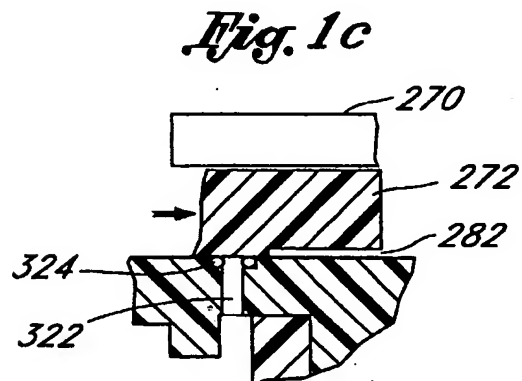
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*Fig. 1a*

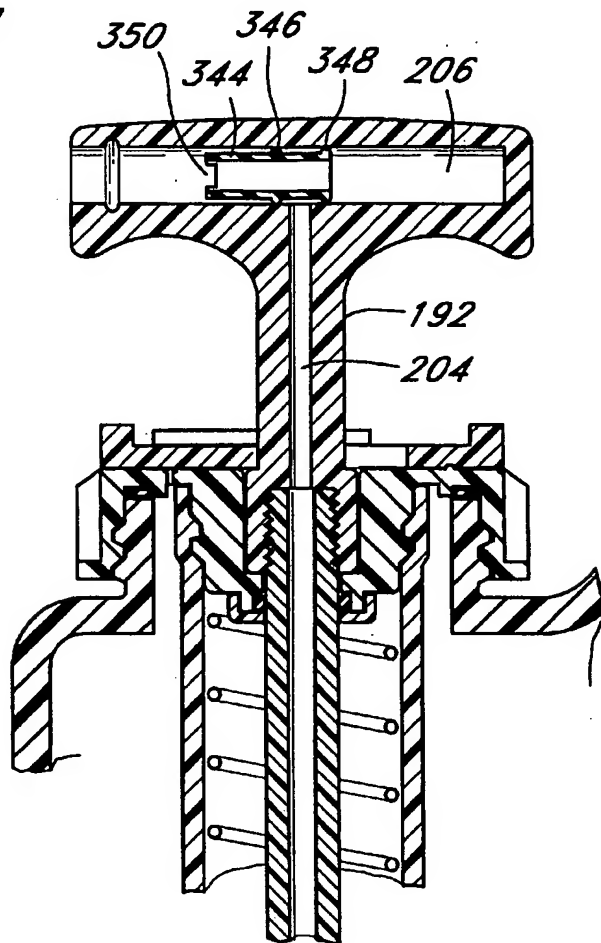


*Fig. 1b*

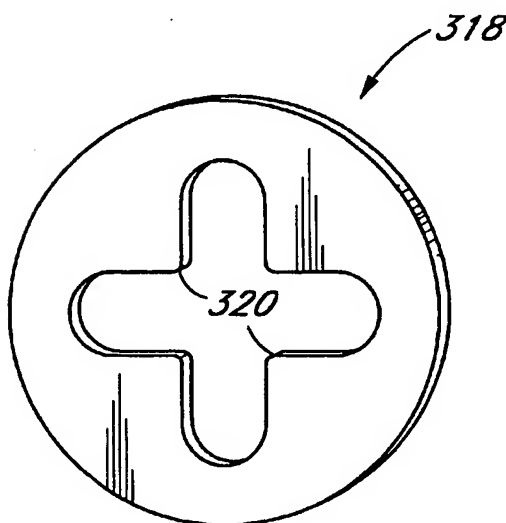


*Fig. 1c*

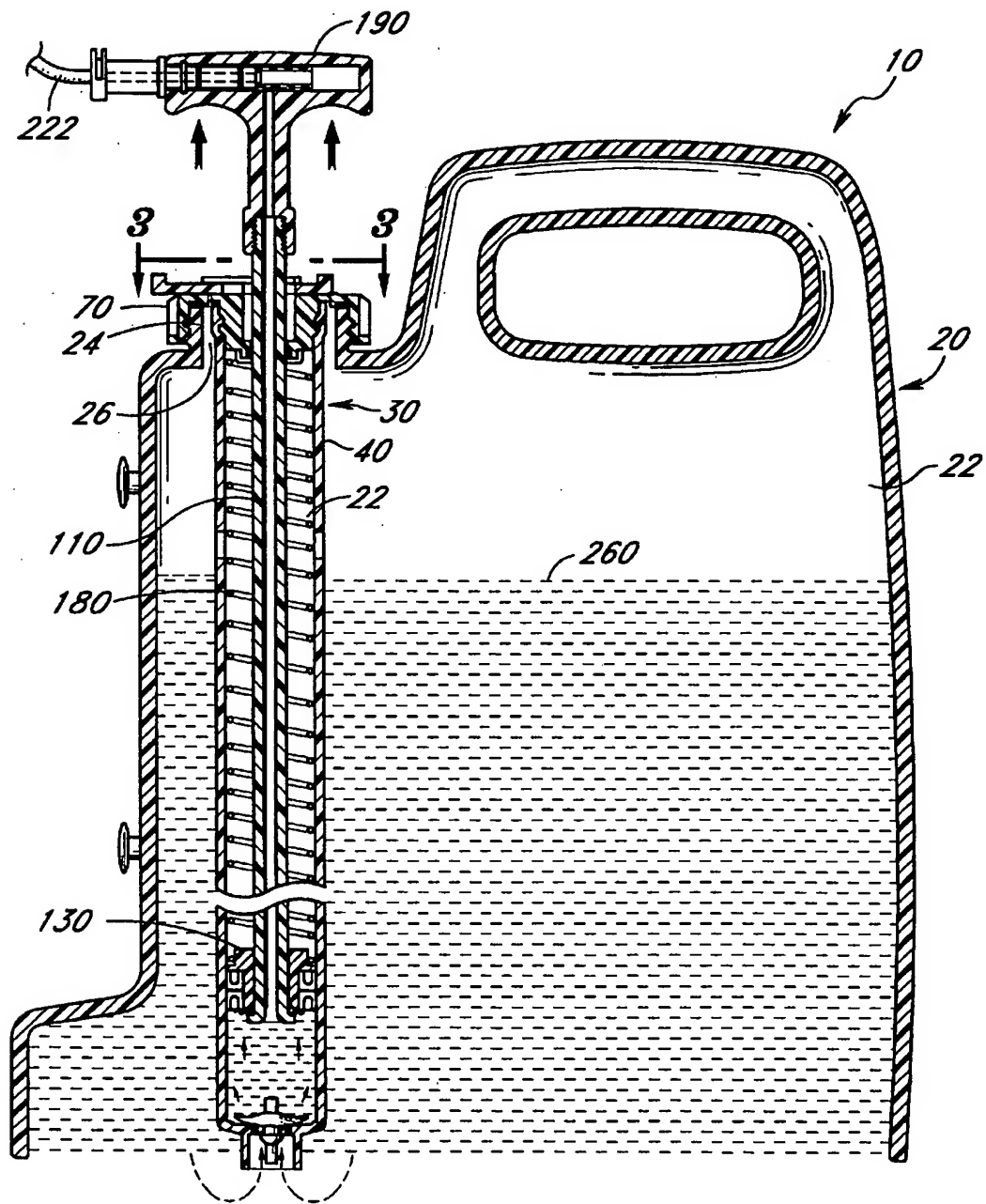
*Fig. 1d*



*Fig. 1e*



*Fig. 2*



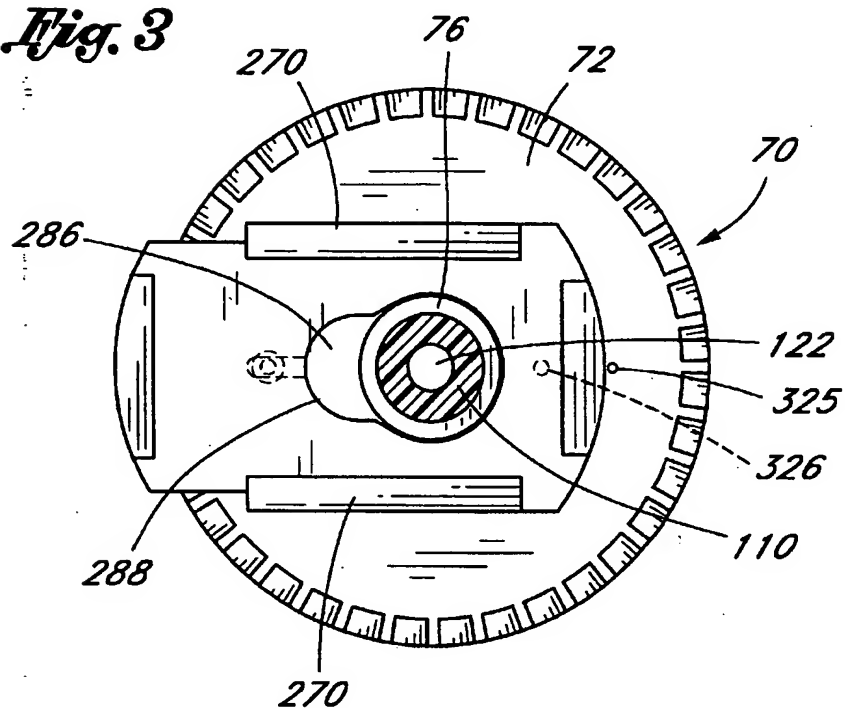
### *PUMP ASSEMBLY WITH ONE PIECE PISTON*

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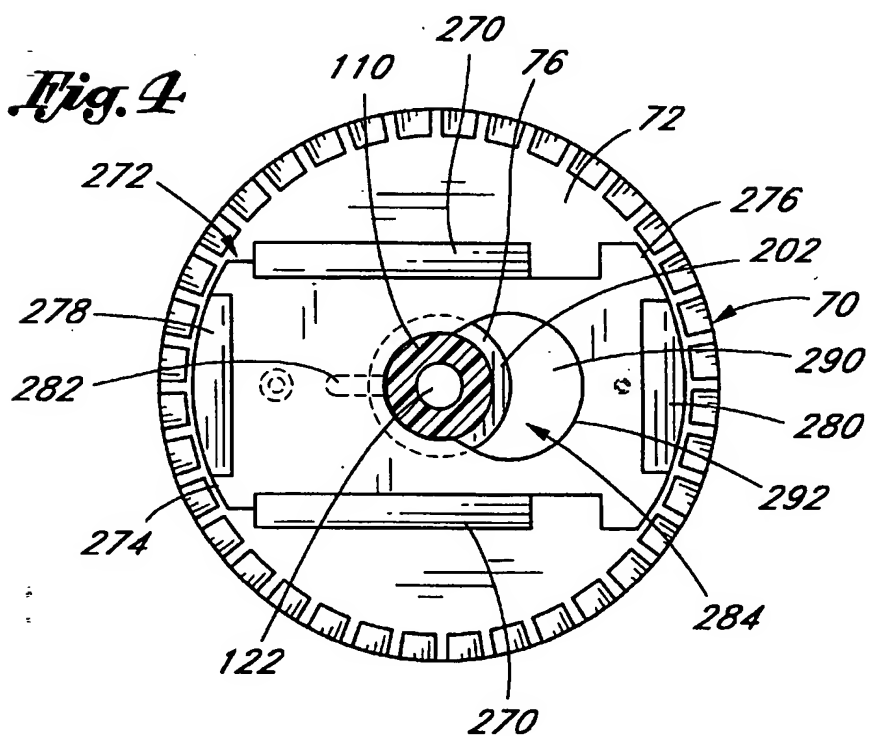
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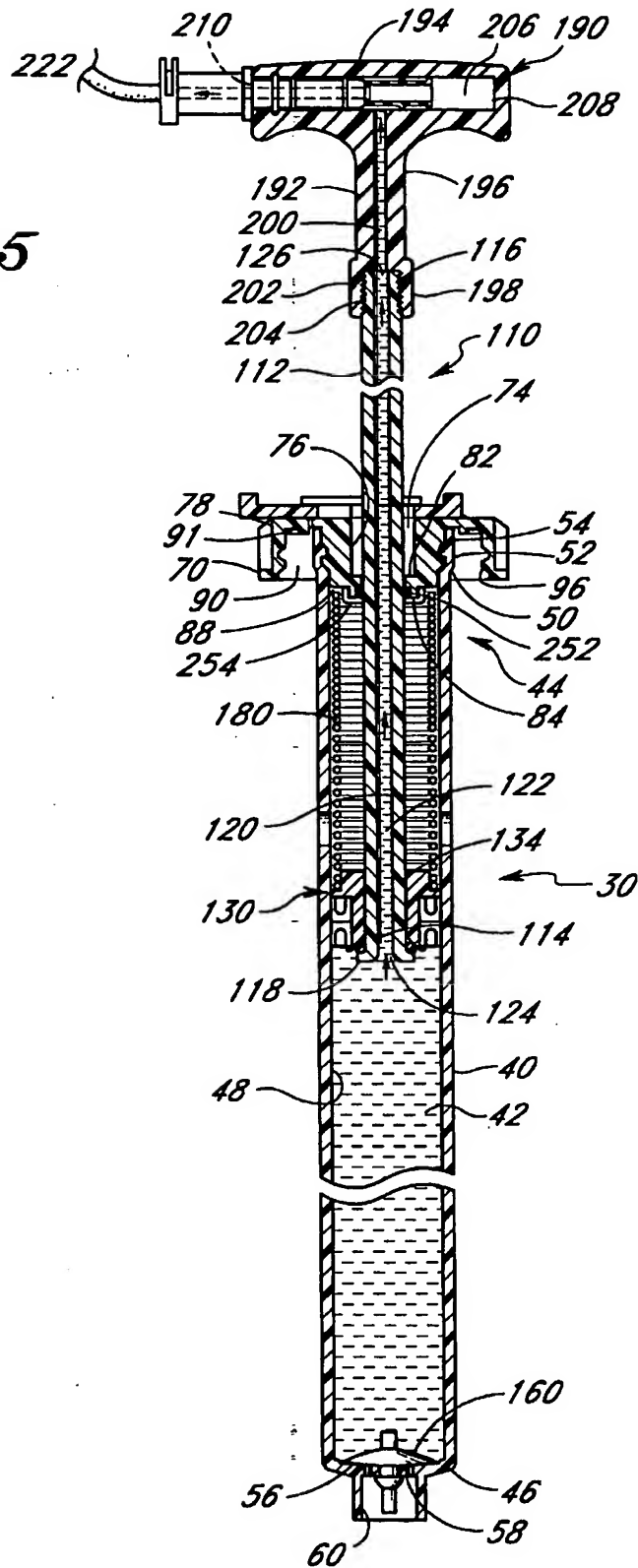
*Fig. 3*



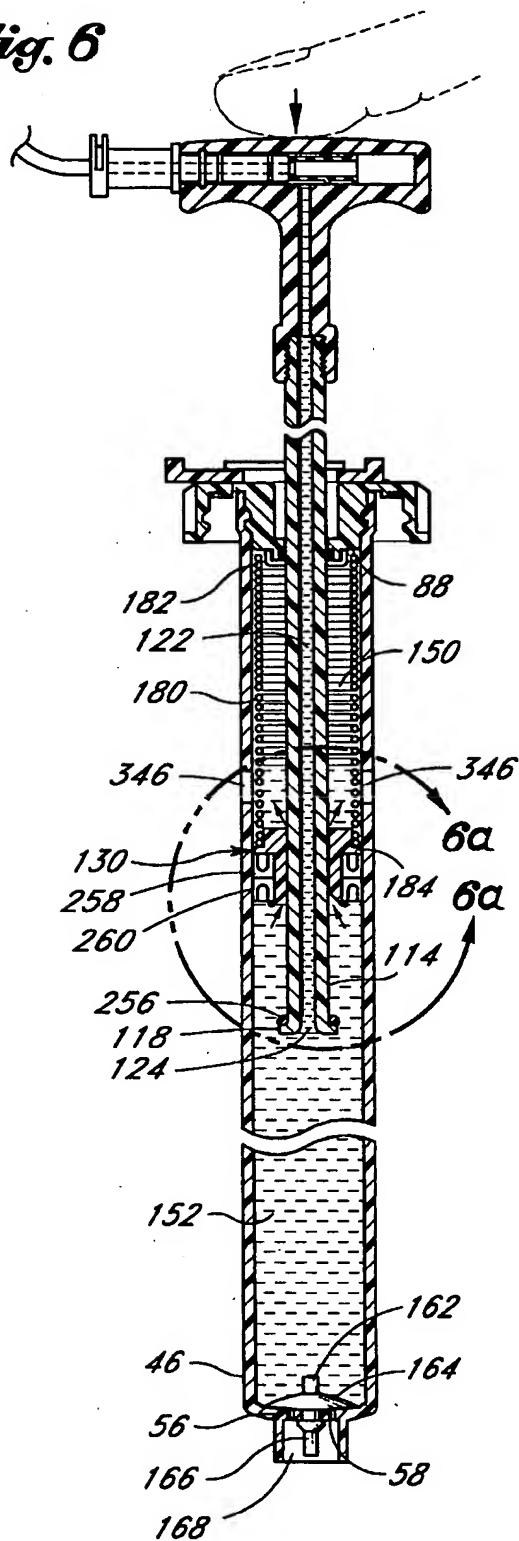
*Fig. 4*



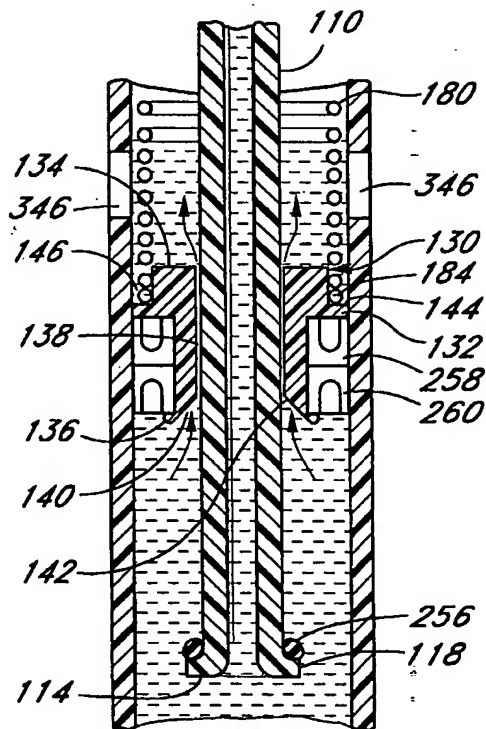
*Fig. 5*



*Fig. 6*



*Fig. 6a*

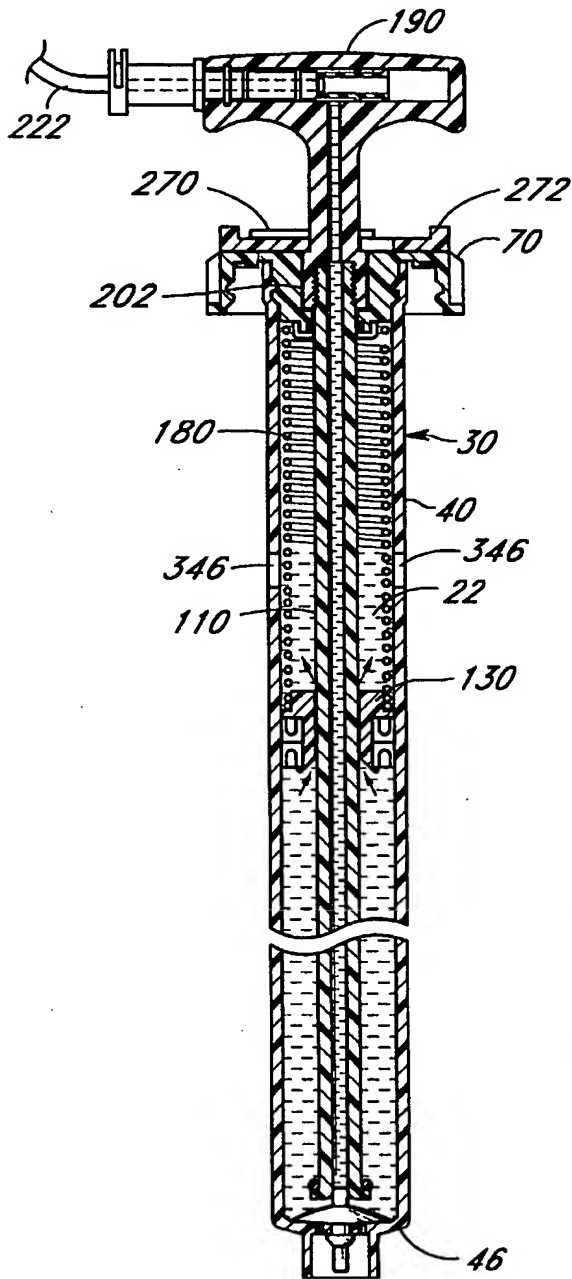


# PUMP ASSEMBLY WITH ONE PIECE PISTON

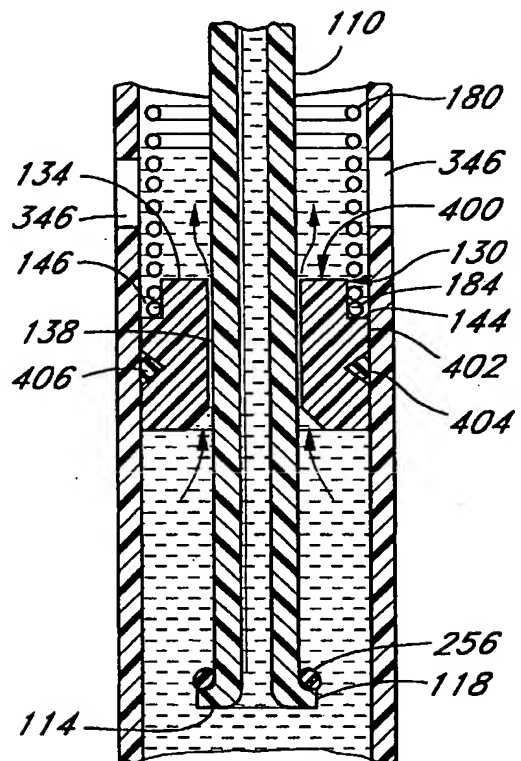
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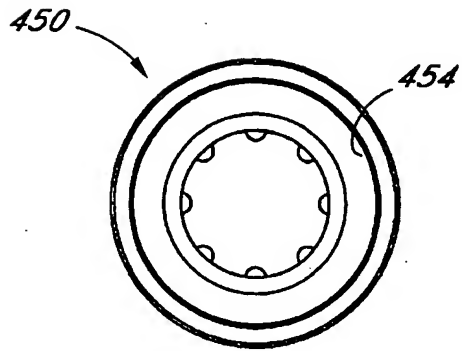
*Fig. 7*



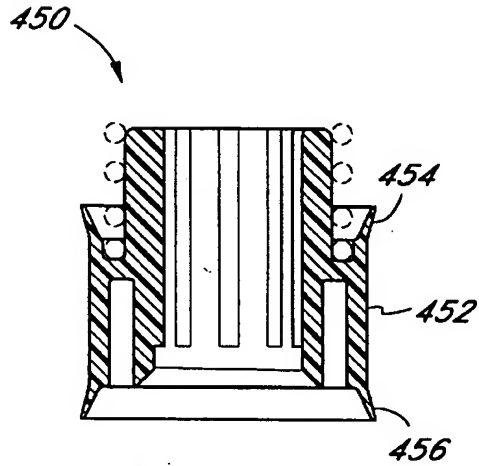
*Fig. 8*



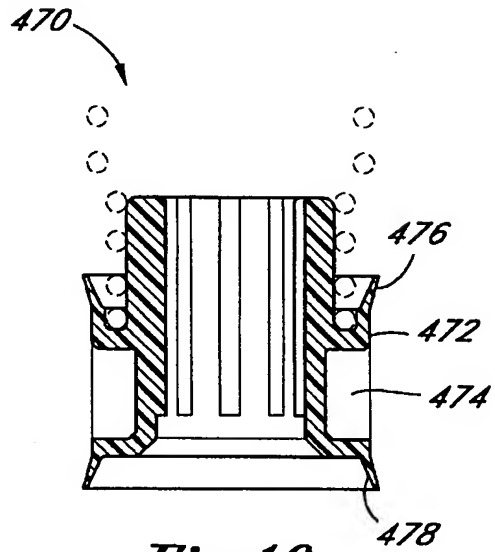




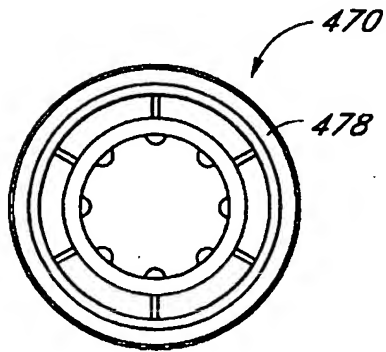
*Fig. 9a*



*Fig. 9*



*Fig. 10*



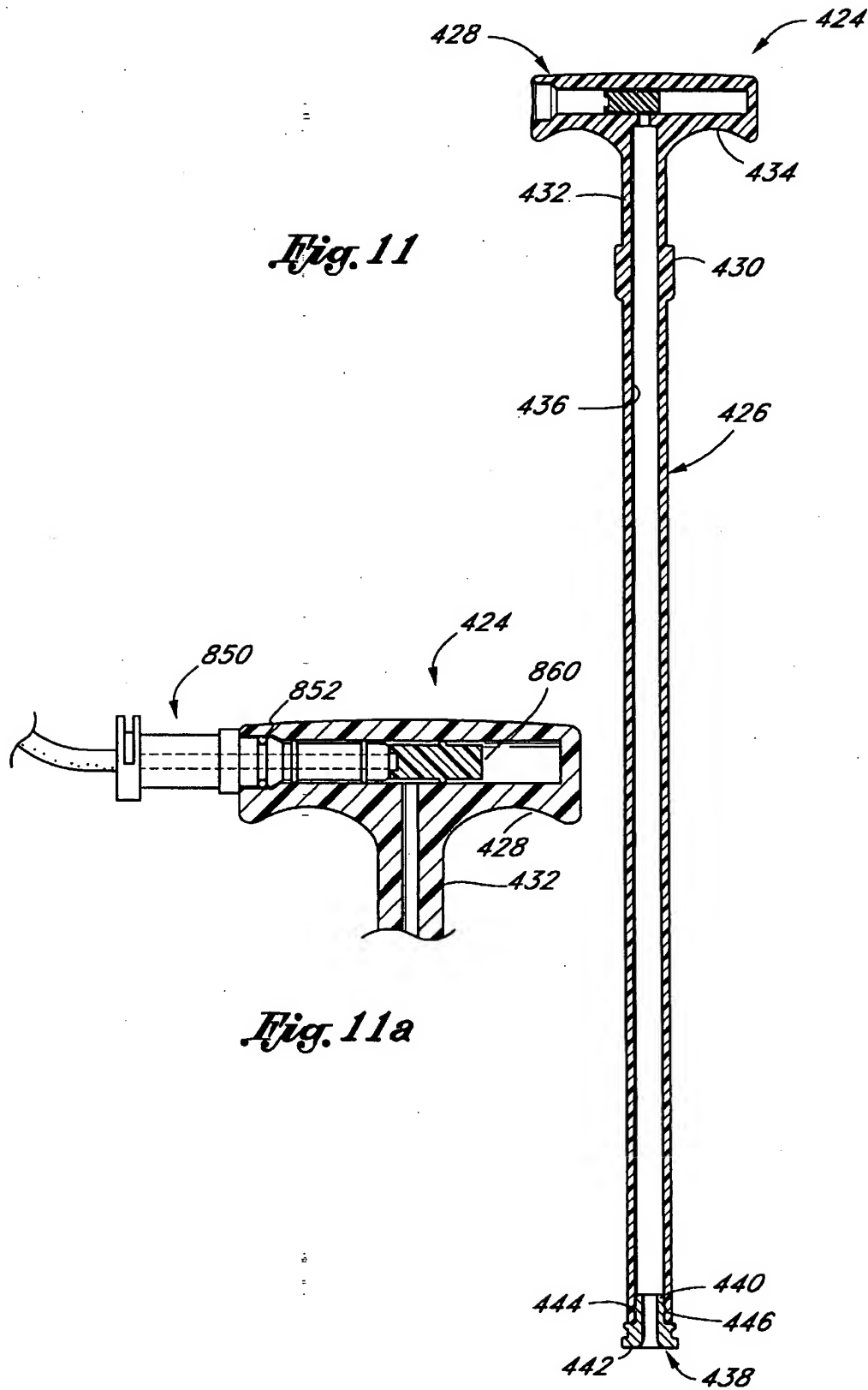
*Fig. 9b*

### *PUMP ASSEMBLY WITH ONE PIECE PISTON*

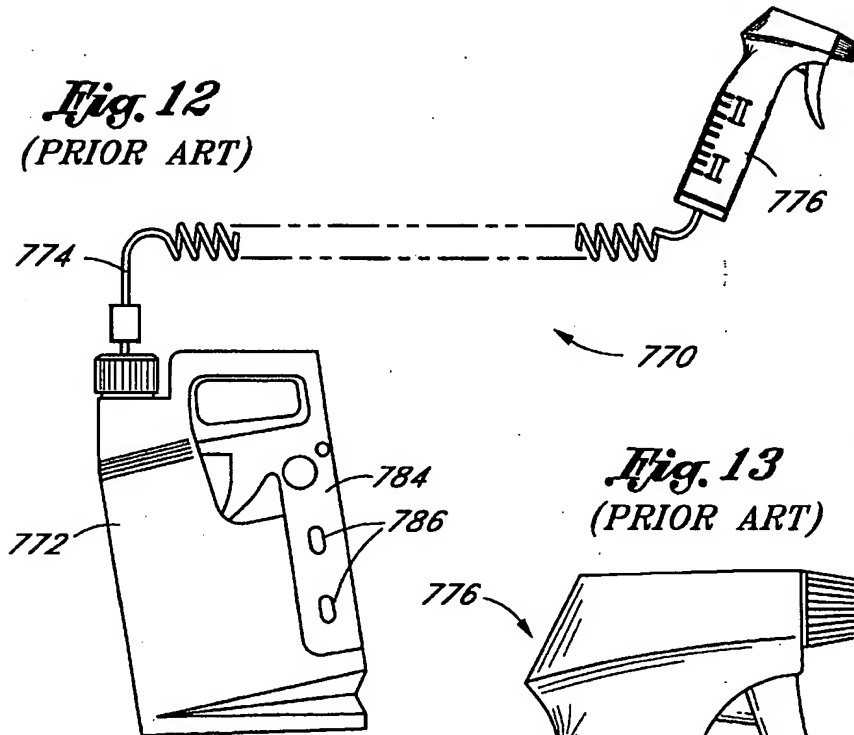
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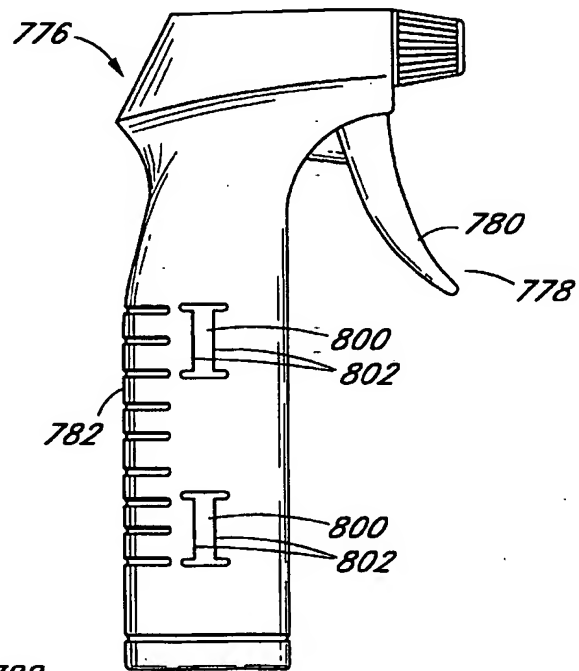
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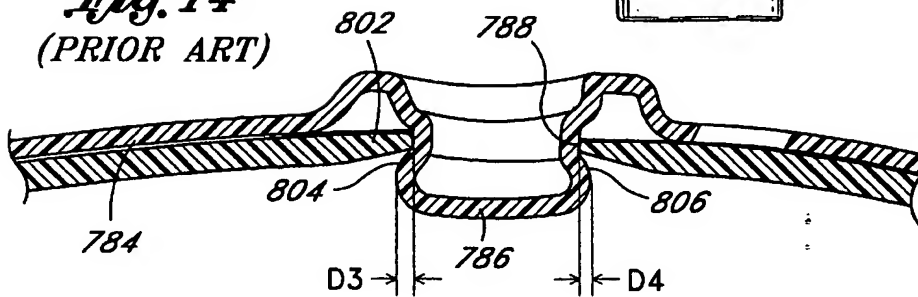
**Fig. 12**  
(PRIOR ART)

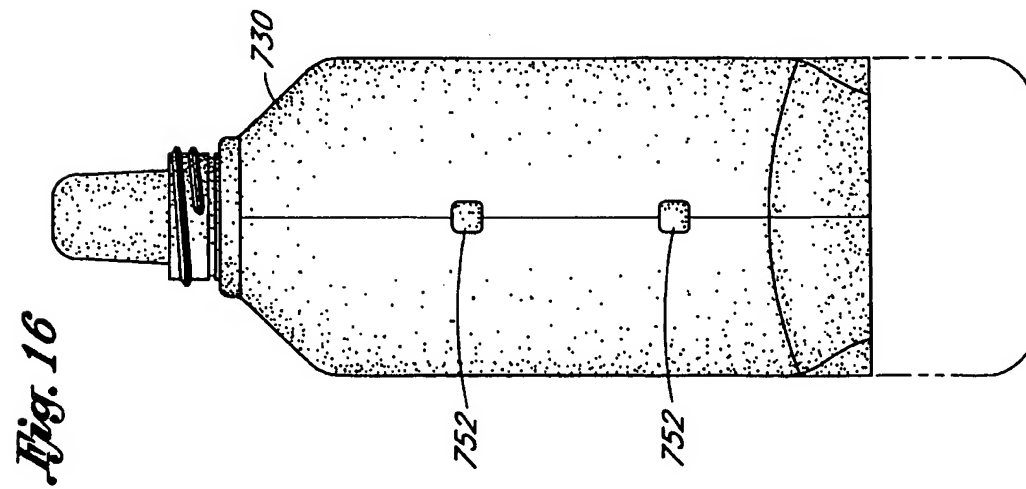
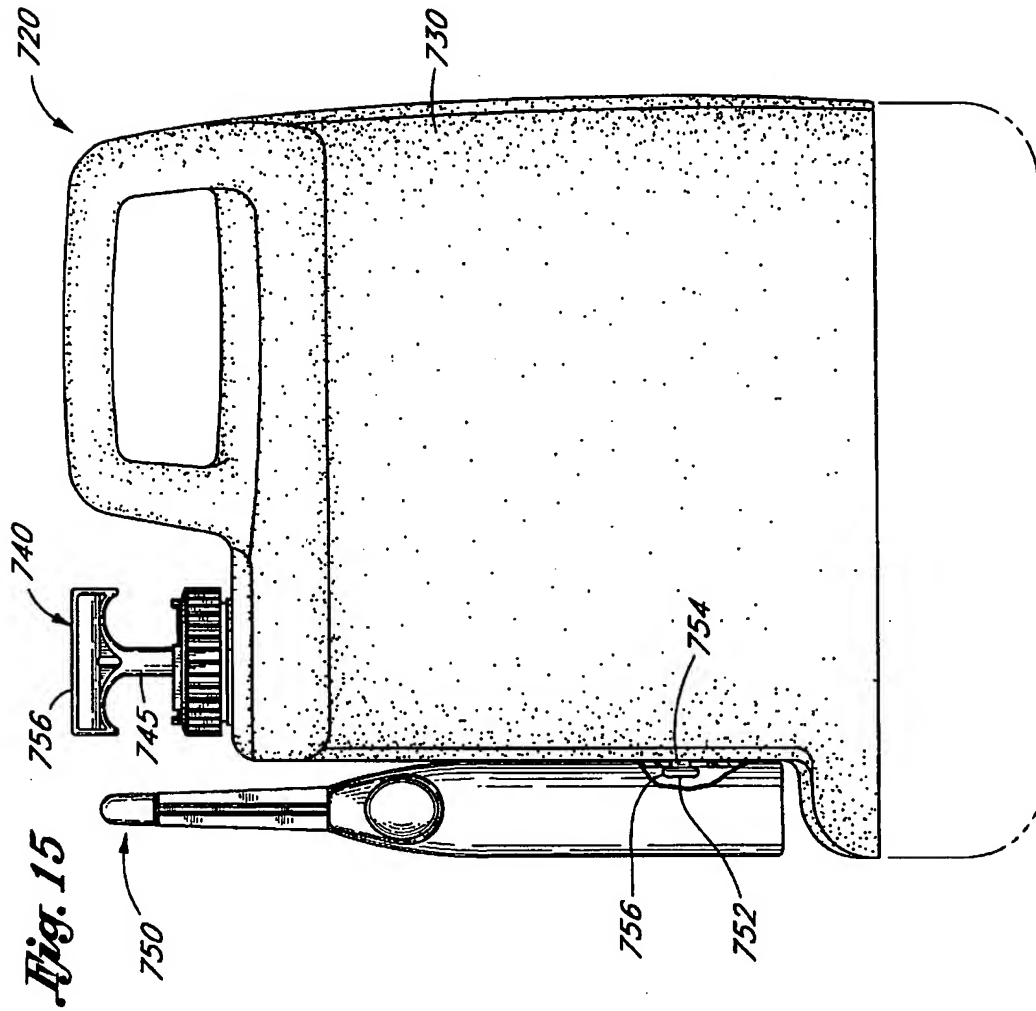


**Fig. 13**  
(PRIOR ART)



**Fig. 14**  
(PRIOR ART)





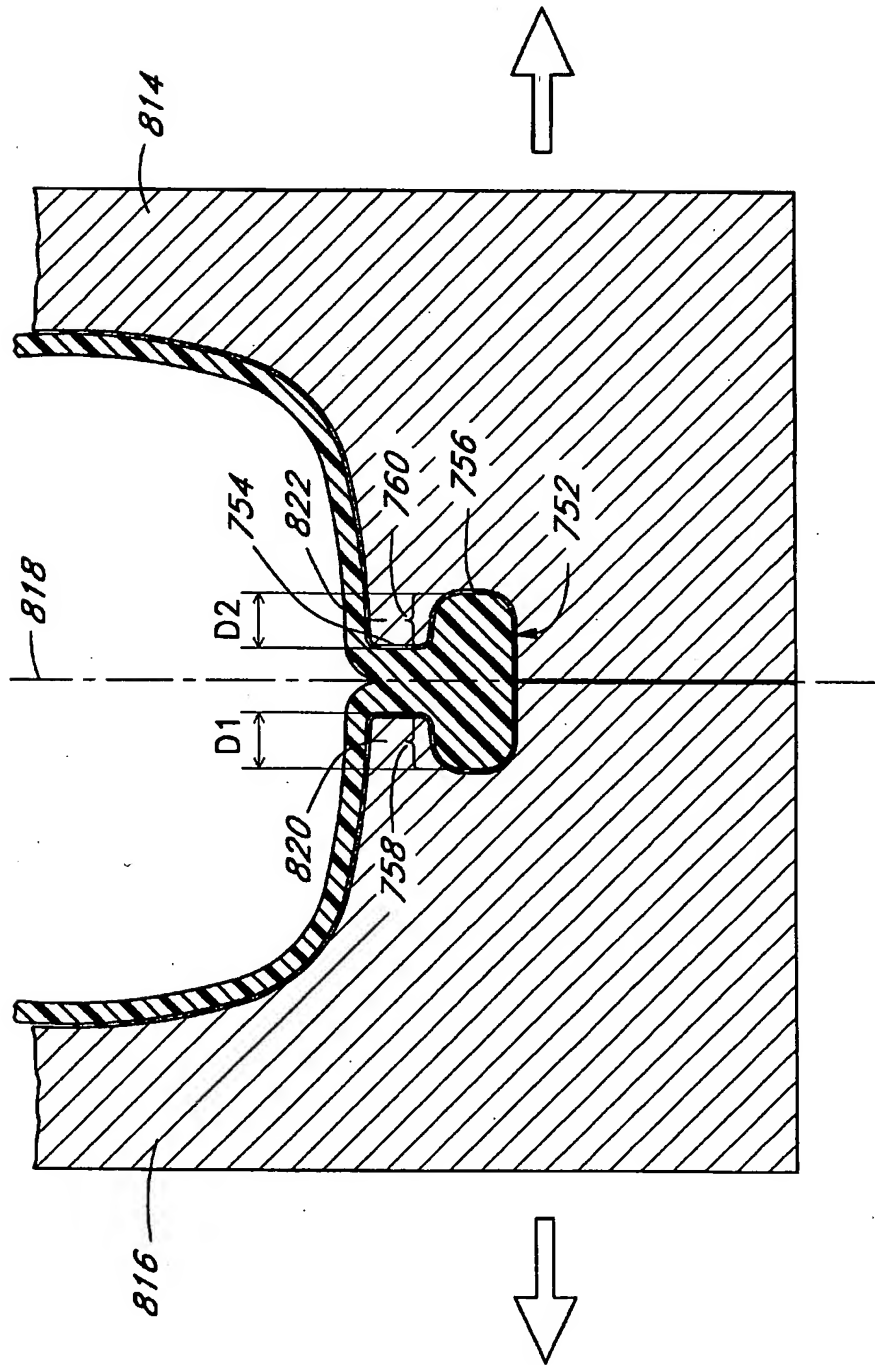
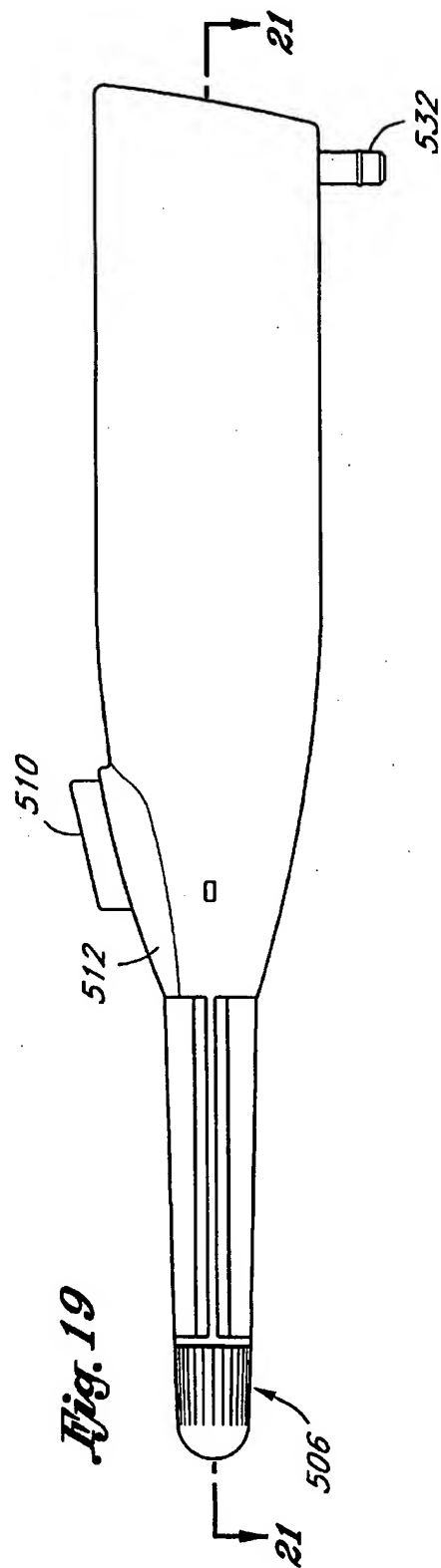
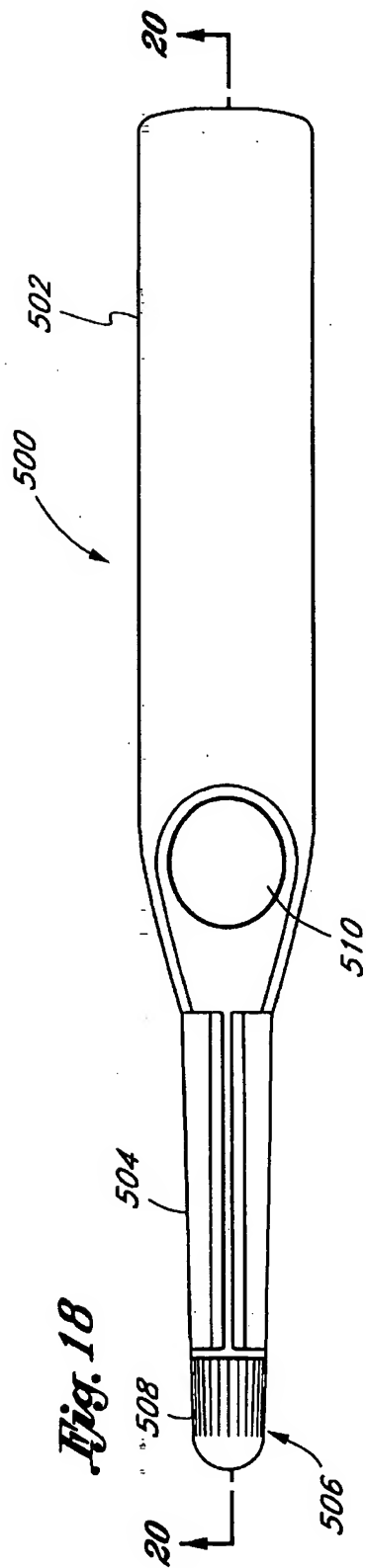
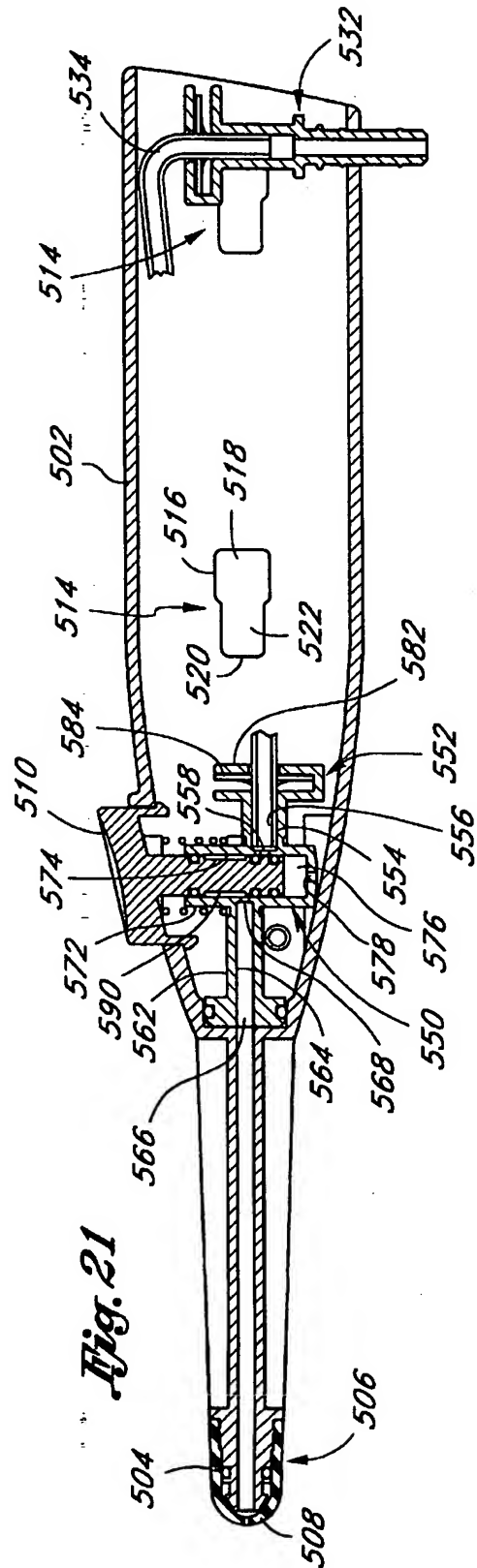
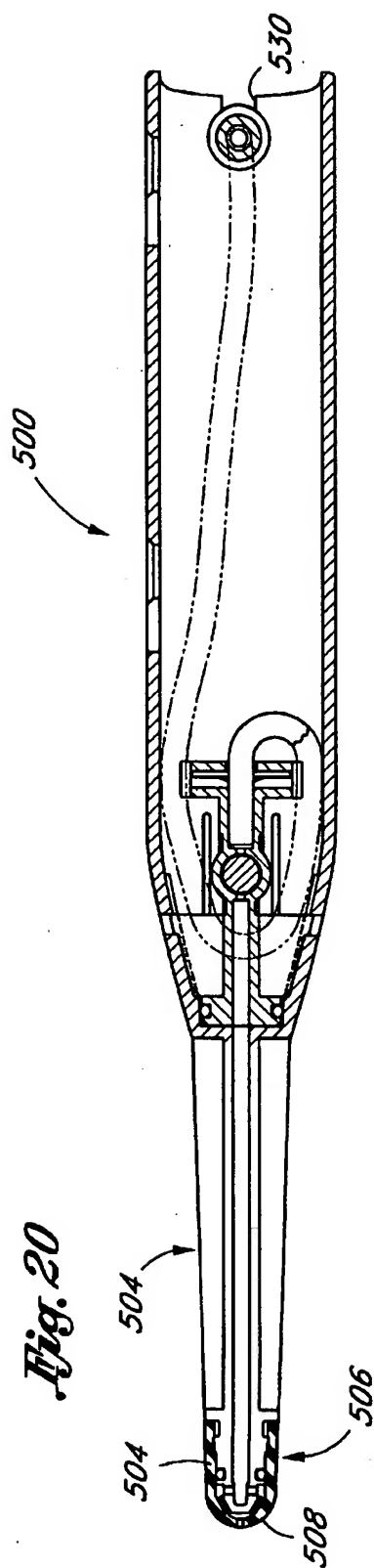


Fig. 17





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**Fig. 25**

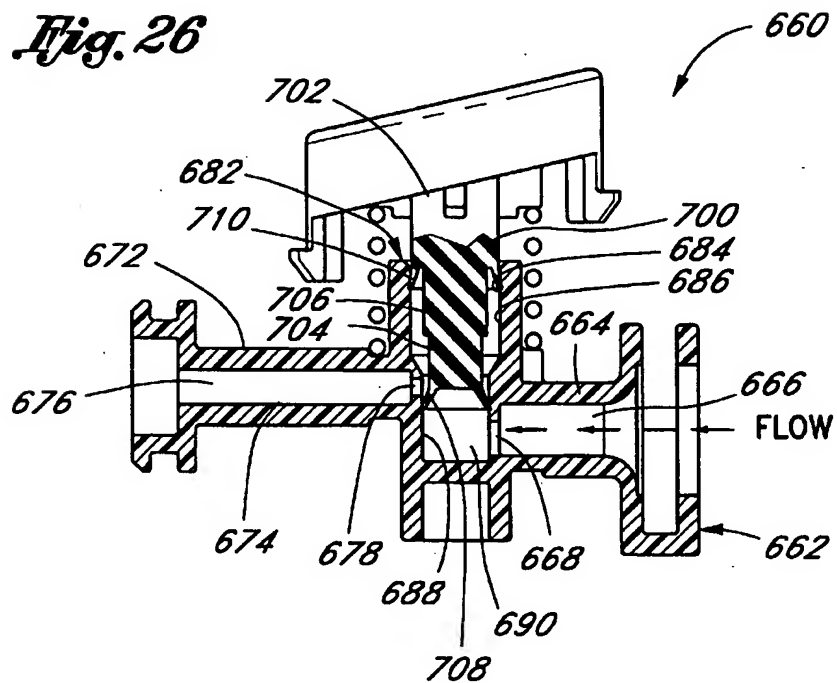
This technical drawing illustrates a complex mechanical assembly in cross-section. Key components and their labels include:

- 610**: The main upper housing or manifold.
- 632, 648, 646, 628, 644, 634, 650**: Various ports, valves, and internal structures within the upper assembly.
- 612, 616, 614, 618**: Lower structural elements or manifolds.
- 654, 652, 640, 636, 624, 626**: Internal channels and components connecting the upper and lower sections.
- 622**: An external inlet/outlet port on the left side.
- 25a**: A specific internal feature or passage.

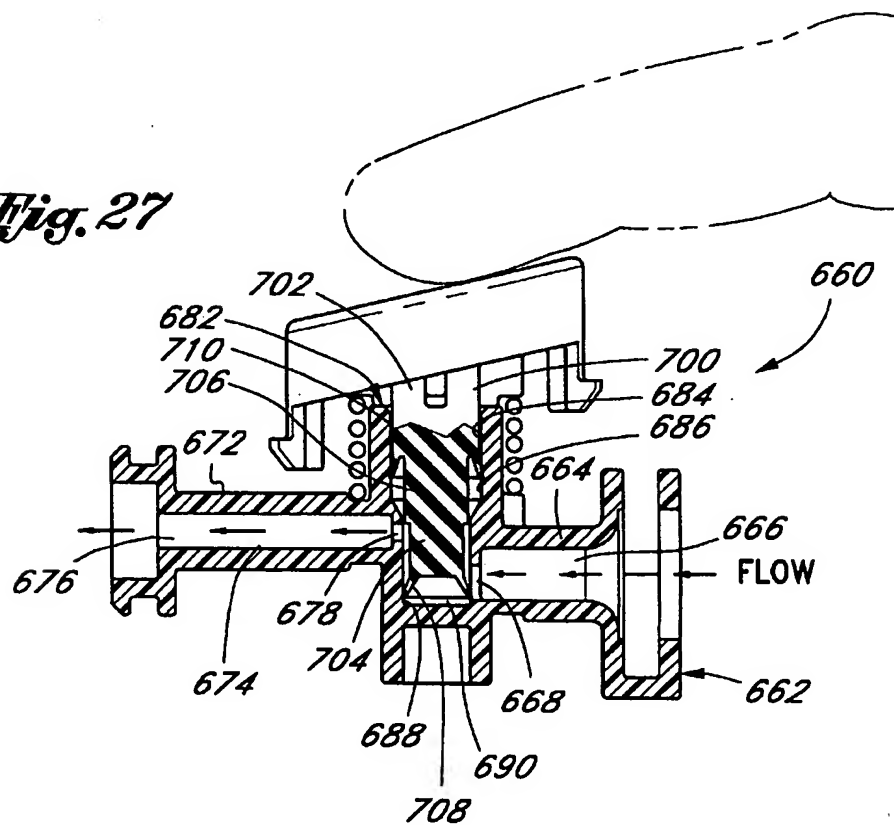
Arrows throughout the diagram indicate the direction of fluid flow, showing a path from the left, through several chambers and passages, and exiting at the bottom right.

Fig. 5a is a cross-sectional view of a cylindrical component. It features a central hole with a flange at the top. The component is labeled with 5a, 614, 646, 652, and 636.

*Fig. 26*



*Fig. 27*



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